1. **python programmes to merge mails**

with open('names.txt','r', encoding = 'utf=8') as names\_file:

with open('body.txt','r',encoding='utf=8') as body\_file:

body = body\_file.read()

for name in names\_file:

mail='Hello'+name+body

with open(name.strip()+'.txt','w',encoding='utf=8') as mail\_file:

mail\_file.write(mail)

1. **To find the resolution of the image**

def res(filename):

print("The resolution of the image is", width,"X", height)

res("img1.jpg")

1. **programme to sort words in alphabetic order**

my\_str="Hello this is an example with cased letters"

my\_str=my\_str.casefold()

words=my\_str.split()

words.sort()

print('sorted words are:',words)

1. **programme to illustrate different set of operations**

A={2,3,4,5,6,7,1,10}

B={2,3,5,6,8,9,11,12}

print('union of A and B is ', A|B)

print('Intersection of A and B is ', A&B)

print('Difference of A and B is ', A-B)

print('Symmetric difference of A and B is ', A^B)

1. **python programme to count each vowel**

vowel='aeiou'

ip\_str="Hello, have you tried our tutorial section yet?"

ip\_str=ip\_str.casefold()

count={}.fromkeys(vowel,0)

#ip\_str=ip\_str.split()

for char in ip\_str:

if char in count:

count[char]+=1

print(count)

1. **python programme to reversing string**

l=['Yogi','Naveen','Naresh']

x=[]

for y in reversed(l):

x.append(y[::-1])

print(x)

1. **getattr(self,name)**

class person:

name='rahul'

age=28

prof='student'

p=person()

print('Name:',getattr(p,'name'))

print('Age:',p.age)

1. **Two Dictionary keys and values managing**

p={"a":24,"b":16,"c":8,'e':23,'f':12}  
q={"a":12,"b":18,"c":19,'d':25}  
same=[]  
diff=[]  
for kp in p.keys():  
 if kp in q.keys():  
 same.append(kp)  
 else:  
 diff.append(kp)  
for kq in q.keys():  
 if kq not in p.keys():  
 diff.append(kq)  
same.sort()  
diff.sort()  
for key in same:  
 print(key,':',[p[key],q[key]])  
for key in diff:  
 if key in p.keys():  
 print(key,':',p[key])  
 else:  
 print(key,':',q[key])  
for key in same:  
 print(key,':',p[key]+q[key])

1. **python programme to multiply a matrix**
2. **python programme to add two matrix**
3. **string is palindrome or not**
4. **convert decimal to binary,octal and hexadecimal**
5. **how to shuffle deck of card**
6. **convert kilometer to miles**
7. **convert celsius to foranhiet**
8. **check a leap year**
9. **To calculate the area of triangle**
10. **To solve quadratic equation**
11. **To generate random number**
12. **To find LCM**
13. **Using function find LCM**
14. **To find HCF**
15. **print Fibbonaci sequence and also print using recursive function**
16. **To find factors of a number**
17. **To find factorial of a number / using recursive**
18. **To check Armstrong number for n digits / range**
19. **To find square root**
20. **prime number**